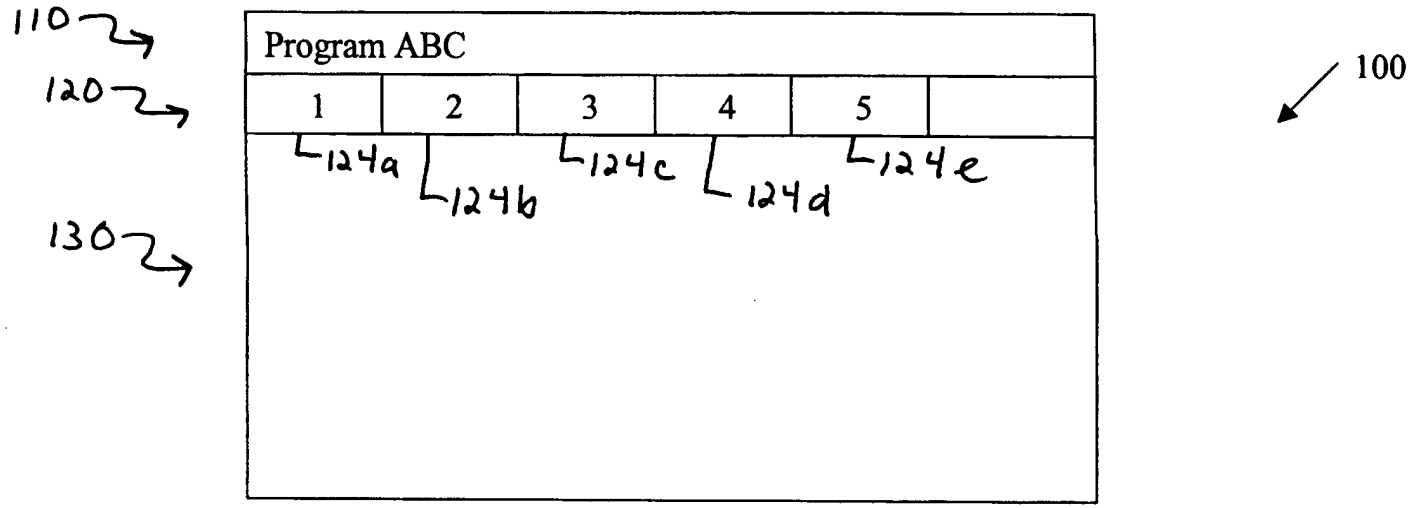
110
120
130
Program ABC
1
2
3
4
5
124a
124b
124c
124d
124e
100

FIG. 1A

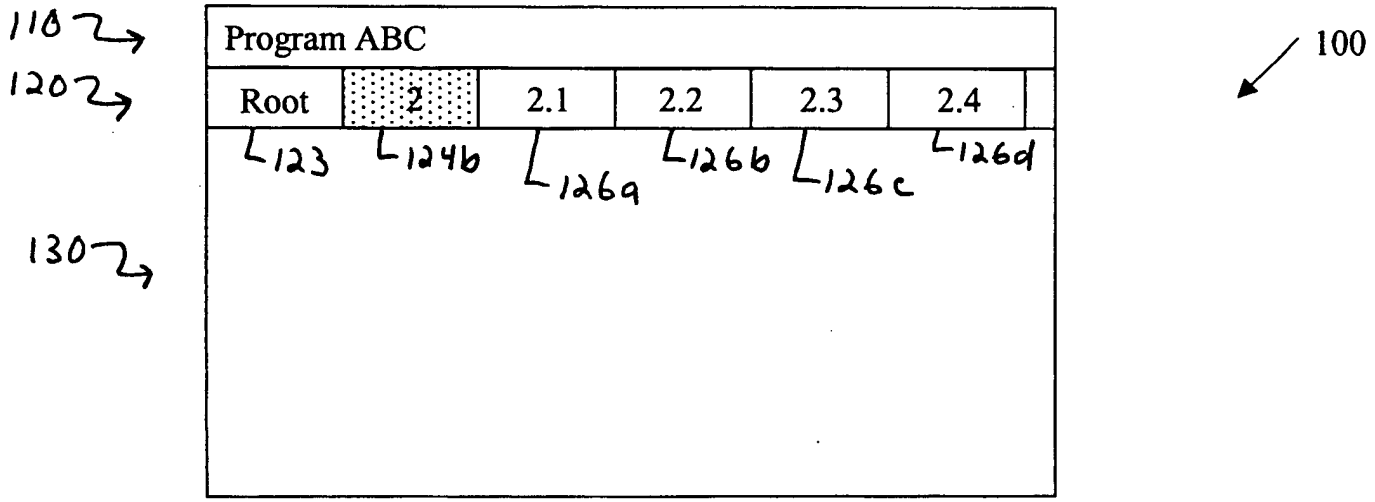
110
120
130
Program ABC
Root
2
2.1
2.2
2.3
2.4
123
124b
126a
126b
126c
126d
100

FIG. 1B

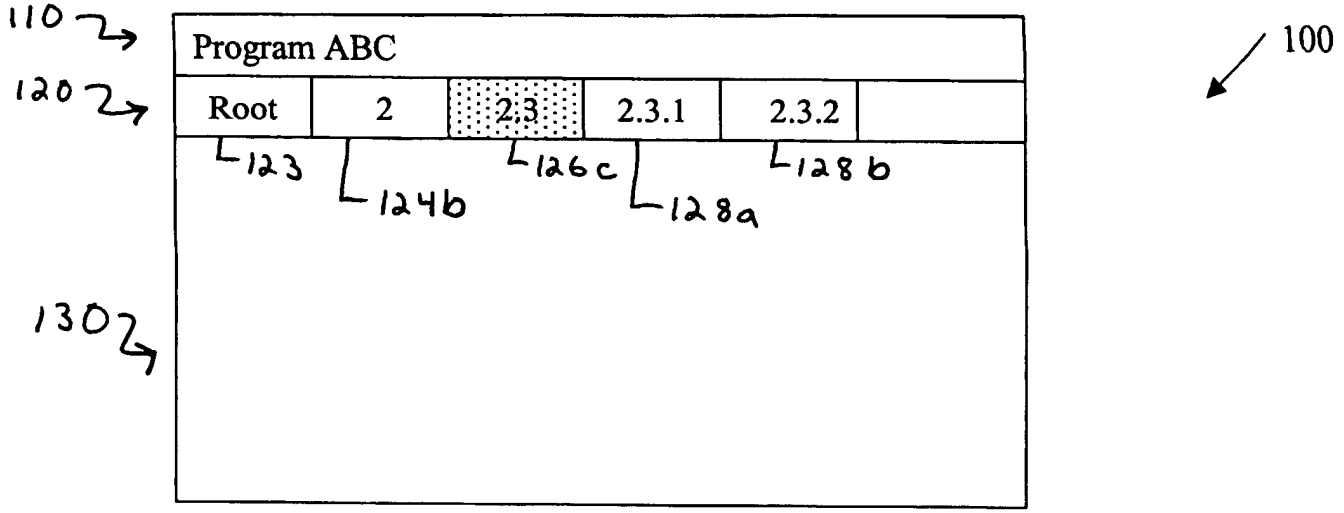
110
Program ABC
120
Root
2
2.3
2.3.1
2.3.2
123
124b
126c
128a
128b
130
100

FIG. 1C

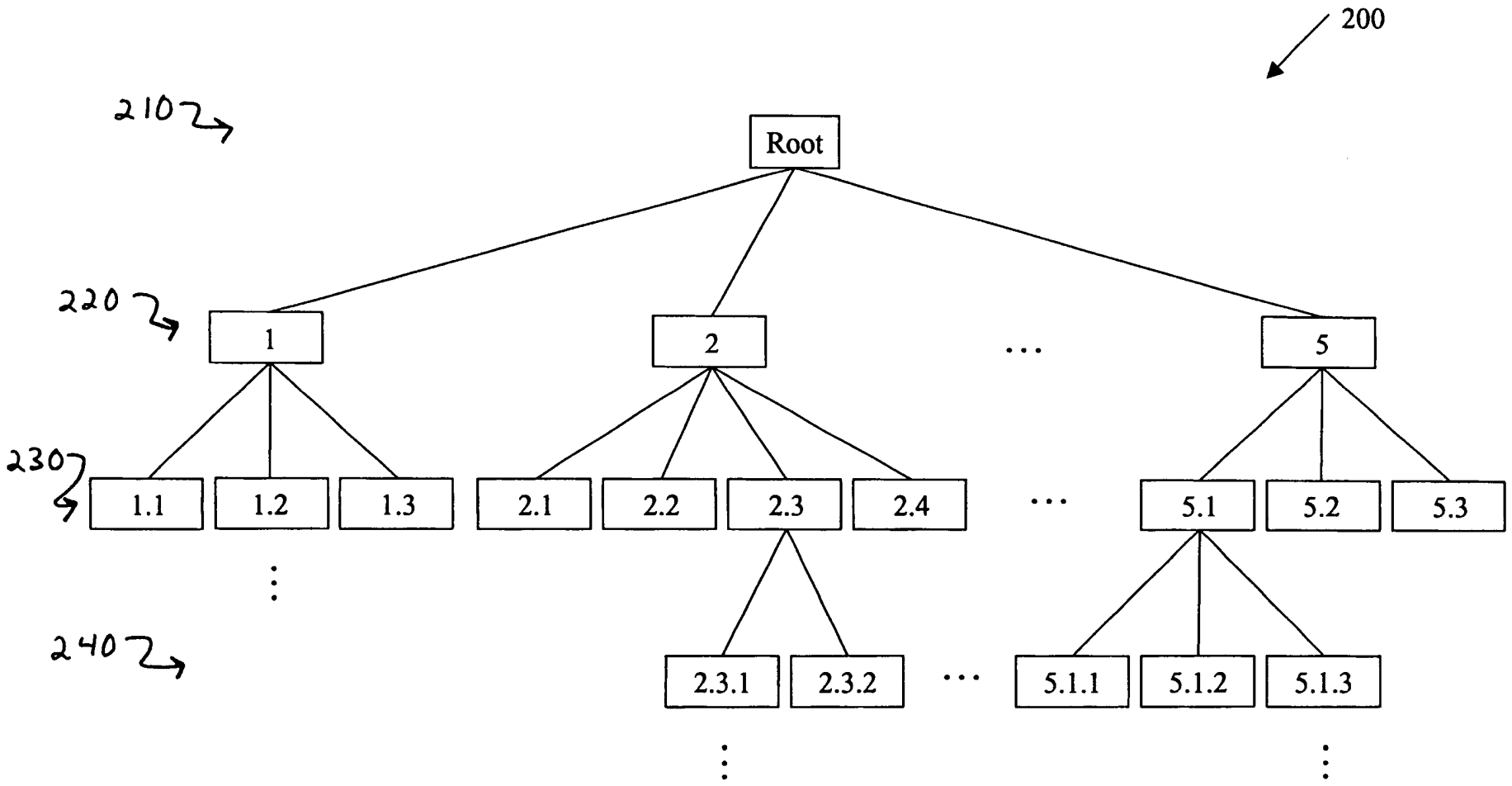
200
210
Root
220
1
2
5
230
1.1
1.2
1.3
2.1
2.2
2.3
2.4
5.1
5.2
5.3
240
2.3.1
2.3.2
5.1.1
5.1.2
5.1.3

FIG. 2

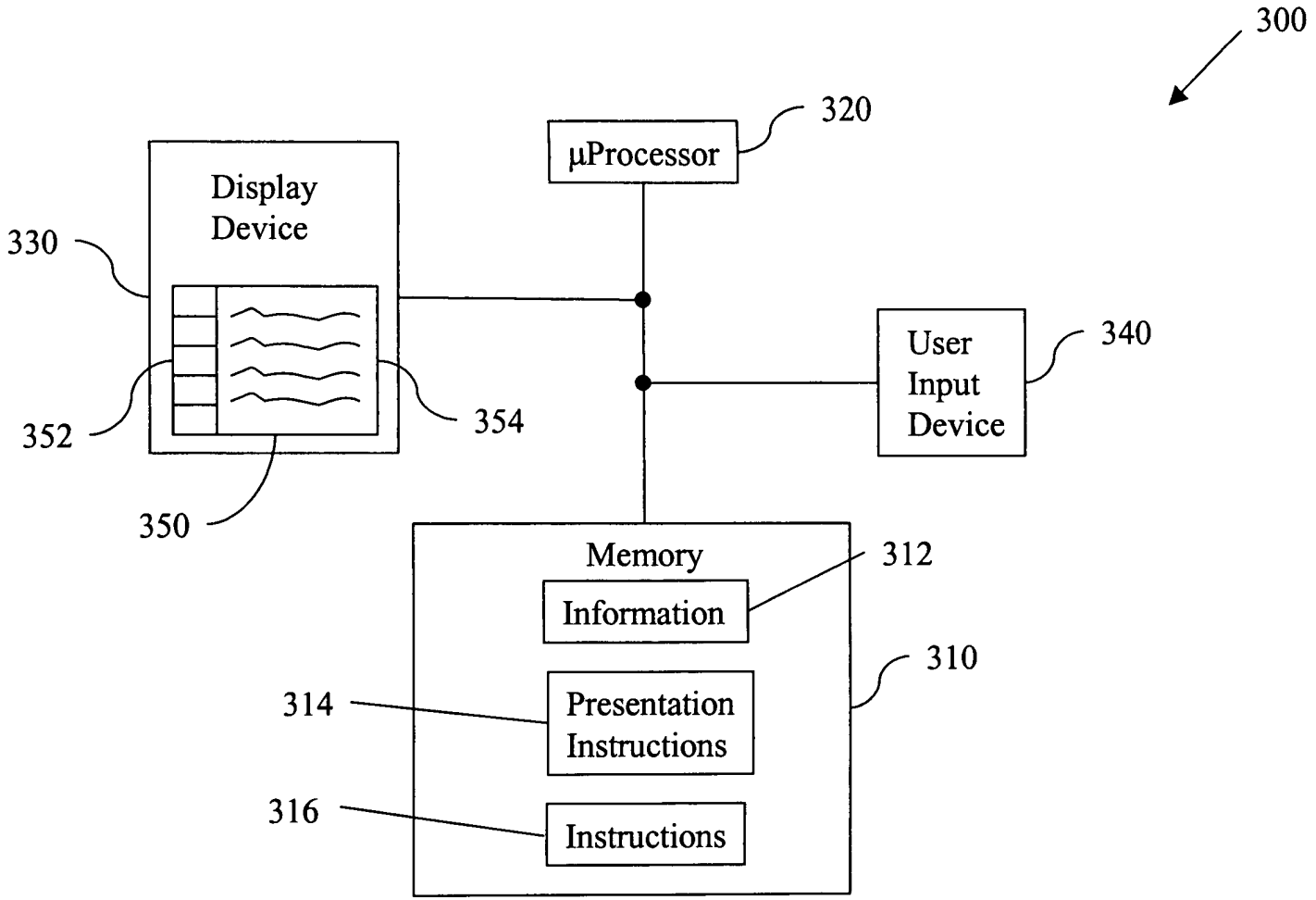
300
320
µProcessor
Display
Device
330
352
354
350
User
Input
Device
340
Memory
312
Information
310
314
Presentation
Instructions
316
Instructions

FIG. 3

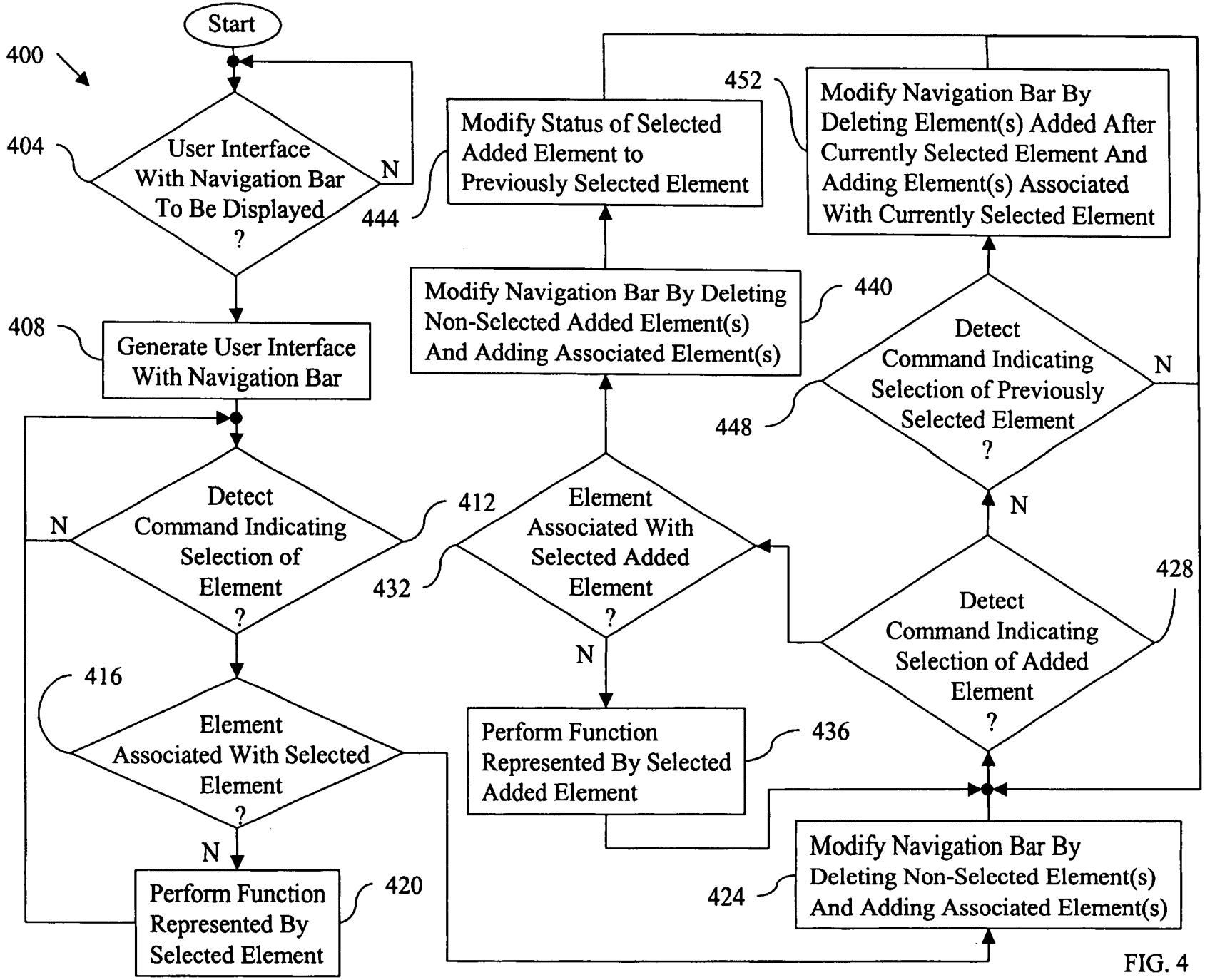
Start
400
404
User Interface With Navigation Bar To Be Displayed ?
N
444
Modify Status of Selected Added Element to Previously Selected Element
452
Modify Navigation Bar By Deleting Element(s) Added After Currently Selected Element And Adding Element(s) Associated With Currently Selected Element
408
Generate User Interface With Navigation Bar
Modify Navigation Bar By Deleting Non-Selected Added Element(s) And Adding Associated Element(s)
440
448
Detect Command Indicating Selection of Previously Selected Element ?
N
N
Detect Command Indicating Selection of Added Element ?
428
412
Element Associated With Selected Added Element ?
432
N
N
416
Element Associated With Selected Element ?
N
Perform Function Represented By Selected Added Element
436
Perform Function Represented By Selected Element
420
424
Modify Navigation Bar By Deleting Non-Selected Element(s) And Adding Associated Element(s)

FIG. 4

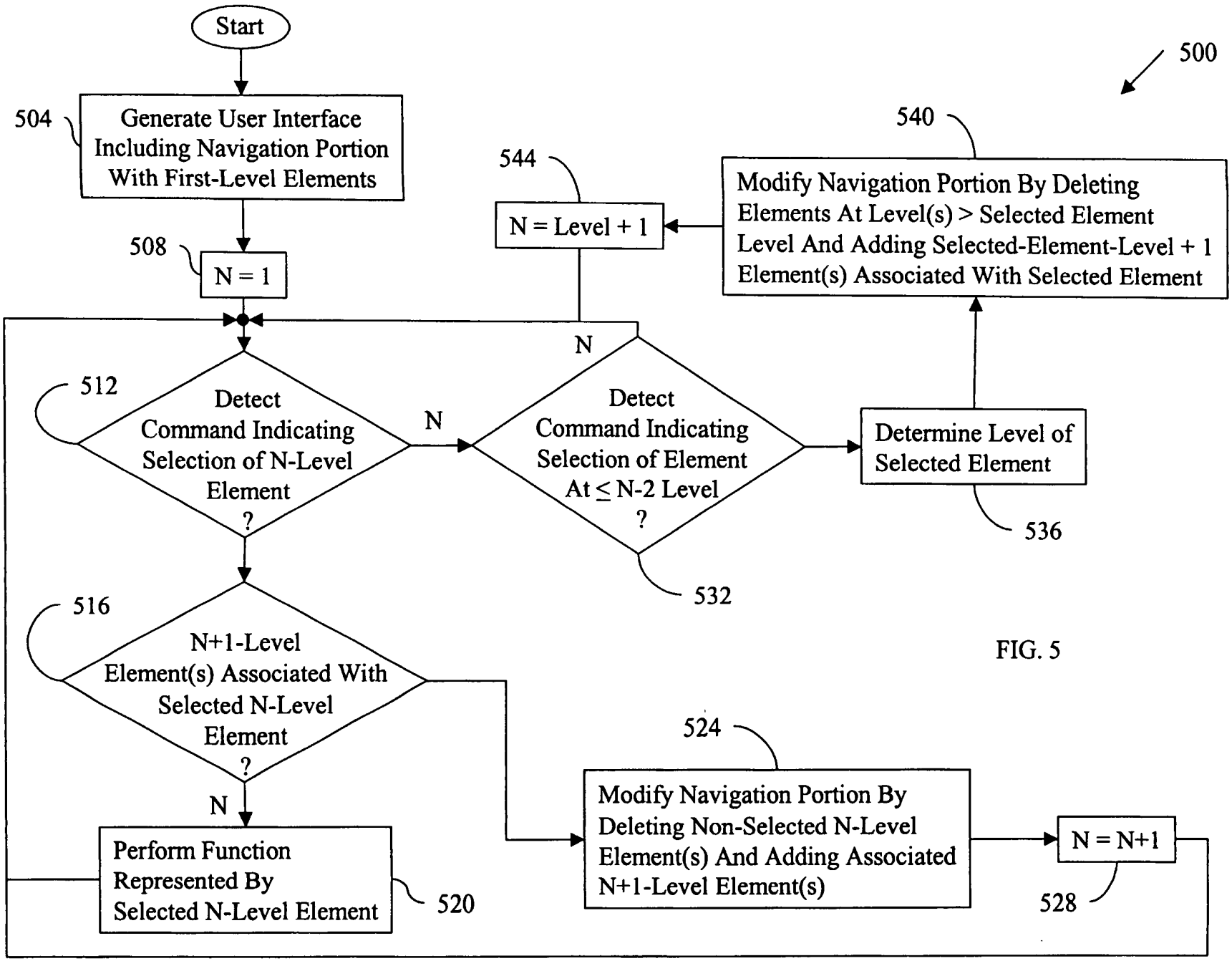
Start
500
504
Generate User Interface Including Navigation Portion With First-Level Elements
540
544
Modify Navigation Portion By Deleting Elements At Level(s) > Selected Element Level And Adding Selected-Element-Level + 1 Element(s) Associated With Selected Element
N = Level + 1
508
N = 1
N
512
Detect Command Indicating Selection of N-Level Element ?
N
Detect Command Indicating Selection of Element At ≤ N-2 Level ?
Determine Level of Selected Element
536
532
516
N+1-Level Element(s) Associated With Selected N-Level Element ?
524
N
Modify Navigation Portion By Deleting Non-Selected N-Level Element(s) And Adding Associated N+1-Level Element(s)
N = N+1
528
Perform Function Represented By Selected N-Level Element
520

FIG. 5